

32. (New) The cleaning implement of Claim 31, wherein said attachment layer comprises a material selected from the group consisting of a translucent film, loop material, adhesive tape, and combinations thereof.

33. (New) The cleaning implement of Claim 32, wherein said attachment layer comprises a clear polyethylene film.

34. (New) The cleaning implement of Claim 33, wherein said attachment layer further comprises loop material.

35. (New) The cleaning implement of Claim 29, wherein said removable cleaning pad further comprises at least two absorbent layers, wherein said absorbent layers have multiple widths in the z-dimension.

36. (New) The cleaning implement of Claim 35, wherein said removable cleaning pad further comprises at least three absorbent layers, wherein said absorbent layers have multiple widths in the z-dimension.

37. (New) A cleaning pad comprising:  
(a) a liquid pervious scrubbing layer comprising an apertured formed film; and  
(b) an absorbent-layer comprising superabsorbent material;  
wherein said cleaning pad has resiliency of at least about 95%.

38. (New) The cleaning pad of Claim 37, wherein said cleaning pad further comprises at least two absorbent layers, wherein said absorbent layers have multiple widths in the z-dimension.

39. (New) The cleaning pad of Claim 37, wherein said cleaning pad further comprises an attachment layer.

40. (New) The cleaning pad of Claim 39, wherein said attachment layer comprises a polyethylene film.

41. (New) The cleaning pad of Claim 40, wherein said polyethylene film is clear.

42. (New) The cleaning pad of Claim 41, wherein said attachment layer further comprises loop material.

43. (New) A method of cleaning a hard surface comprising wiping said surface with a cleaning pad comprising:

- (a) a liquid pervious scrubbing layer comprising an apertured formed film; and
- (b) an absorbent layer comprising superabsorbent material.

44. (New) The method of Claim 43, wherein said hard surface is an inanimate surface.

45. (New) An article of manufacture comprising:

- (a) a cleaning pad comprising:
  - (i) a liquid pervious scrubbing layer comprising an apertured formed film; and
  - (ii) an absorbent layer comprising superabsorbent material; and
- (b) a set of instructions comprising the instruction to clean a hard surface by wiping said hard surface with said cleaning pad.

46. (New) A cleaning implement comprising:

- (a) a handle; and
- (b) a disposable cleaning pad comprising an absorbent layer and functional cuffs.

47. (New) The cleaning implement of Claim 46, wherein said functional cuffs are looped.

48. (New) A cleaning pad comprising:

- (a) an absorbent layer; and
- (b) functional cuffs.

49. (New) The cleaning pad of Claim 48, wherein said functional cuffs are looped.

50. (New) A cleaning sheet comprising:

- (a) a nonwoven substrate; and
- (b) functional cuffs.

51. (New) The cleaning sheet of Claim 50, wherein said functional cuffs are looped.

52. (New) A cleaning implement comprising:

- (a) a handle; and
- (b) a disposable cleaning sheet comprising:
  - (i) nonwoven substrate; and
  - (ii) functional cuffs.

53. (New) The cleaning implement of Claim 52, wherein said functional cuffs are looped.

54. (New) A cleaning implement comprising:

- (a) a handle; and
- (b) a cleaning pad comprising an absorbent layer comprising a density gradient.

*Inherent.*

55. (New) The cleaning implement of Claim 54, wherein said cleaning pad further comprises a first absorbent layer and a second absorbent layer; wherein said first absorbent layer has a density of from about  $0.01 \text{ g/cm}^3$  to about  $0.15 \text{ g/cm}^3$ , and said second absorbent layer has a density of from about  $0.04 \text{ g/cm}^3$  to about  $0.2 \text{ g/cm}^3$ ; wherein said density of said first absorbent layer is at least about  $0.04 \text{ g/cm}^3$  less than said density of said second absorbent layer.

56. (New) The cleaning implement of Claim 55, wherein said first absorbent layer has a density of from about  $0.03 \text{ g/cm}^3$  to about  $0.1 \text{ g/cm}^3$ , and said second absorbent layer has a density of from about  $0.1 \text{ g/cm}^3$  to about  $0.2 \text{ g/cm}^3$ ; wherein said density of said first absorbent layer is at least about  $0.07 \text{ g/cm}^3$  less than said density of said second absorbent layer.

57. (New) The cleaning implement of Claim 56, wherein said first absorbent layer has a density of from about  $0.04 \text{ g/cm}^3$  to about  $0.06 \text{ g/cm}^3$ , and said second absorbent layer has a density of from about  $0.12 \text{ g/cm}^3$  to about  $0.17 \text{ g/cm}^3$ , wherein said density of said first absorbent layer is at least about  $0.1 \text{ g/cm}^3$  less than said density of said second absorbent layer.

58. (New) A cleaning pad comprising an absorbent layer comprising a density gradient; wherein said cleaning pad has a resiliency of at least about 95%.

59. (New) A cleaning pad comprising:

- (a) at least one absorbent layer; and
- (b) at least one additional element selected from the group consisting of:
  - (i) a liquid pervious scrubbing layer comprising an apertured formed film;
  - (ii) at least one functional cuff;
  - (iii) a density gradient throughout at least one absorbent layer; wherein the density gradient preferably comprises a first absorbent layer having a density of from about  $0.01 \text{ g/cm}^3$  to about  $0.15 \text{ g/cm}^3$ , and a second absorbent layer having a density of from about  $0.04 \text{ g/cm}^3$  to about  $0.2 \text{ g/cm}^3$ ; wherein the density of the first absorbent layer is about  $0.04 \text{ g/cm}^3$ ; and combinations thereof.

60. (New) A cleaning implement comprising:

- (a) a handle; and
- (b) a removable cleaning pad comprising:

- ~~(i) at least one absorbent layer;~~
- (ii) optionally, a liquid pervious scrubbing layer;
- (iii) optionally, an attachment layer;
- (iv) optionally, multiple planar surfaces;
- (v) optionally, at least one functional cuff;
- (vi) optionally, a density gradient throughout at least one absorbent layer; and
- (vii) optionally, at least one adhesive scrubbing strip removably attached to said cleaning pad; and
- (viii) optionally, perfume carrier complex.

61. (New) The cleaning implement of Claim 60, wherein said cleaning pad comprises an adhesive scrubbing strip removably attached to said cleaning pad, wherein said adhesive scrubbing strip comprises material selected from the group consisting of nylon, polyester, polypropylene, abrasive material, and mixtures thereof.

62. (New) The cleaning implement of Claim 61, wherein said adhesive scrubbing strip comprises nylon.

63. (New) The cleaning implement of Claim 62, wherein said adhesive scrubbing strip further comprises abrasive material.

64. (New) The cleaning implement of Claim 63, wherein said abrasive material is selected from the group consisting of silicon carbide, aluminum oxide, calcium carbonate, and mixtures thereof.

65. (New) The cleaning implement of Claim 61, wherein a ratio of an area of a surface of said cleaning pad and an area of a surface of said adhesive scrubbing strip is from about 840:1 to about 3:1.

66. (New) The cleaning implement of Claim 65, wherein said ratio is from about 56:1 to about 18:1.

67. (New) The cleaning implement of Claim 60, wherein said cleaning pad comprises a perfume carrier complex selected from the group consisting of cyclodextrin inclusion complex, matrix perfume microcapsules, and mixtures thereof.

68. (New) The cleaning implement of Claim 67, wherein said perfume carrier complex is located in said absorbent layer of said cleaning pad.

69. (New) The cleaning implement of Claim 68, wherein said perfume carrier complex is a cyclodextrin inclusion complex.

70. (New) The cleaning implement of Claim 60, wherein said cleaning pad comprises at least two layers selected from the group consisting of absorbent layer, liquid pervious scrubbing layer, attachment layer, and combinations thereof, wherein said layers are bonded together by an adhesive capable of providing a bond with a bond retention of at least about 30% of a dry bond strength value between said layers following immersion in water at body temperature for one hour.

71. (New) The cleaning implement of Claim 70, wherein said adhesive is capable of providing a bond with a bond retention of at least about 50% of a dry bond strength value between said layers following immersion in water at body temperature for one hour.

72. (New) The cleaning implement of Claim 71, wherein said adhesive capable of providing a bond with a bond retention of at least about 70% of a dry bond strength value between said layers following immersion in water at body temperature for one hour.

73. (New) A hard surface cleaning composition comprising:

- (a) optionally, from about 0.001% to about 0.5% by weight of the composition of surfactant;
- (b) optionally, hydrophilic polymer;
- (c) optionally, organic solvent;
- (d) optionally, from about 0.01% to about 1% by weight of the composition of mono- or polycarboxylic acid;
- (e) optionally, from about 0.01% to about 1% by weight of the composition of odor control agent, preferably cyclodextrin;
- (f) optionally, a source of peroxide;
- (g) optionally, from about 0.001% to about 0.1% by weight of the composition of thickening polymer;
- (h) aqueous solvent system;
- (i) optionally, suds suppressor;
- (j) optionally, from about 0.005% to about 0.2% by weight of the composition of a perfume comprising:
  - (i) optionally, from about 0.05% to about 90% by weight of the perfume of volatile, hydrophilic perfume material;

- (ii) optionally, at least about 0.2% by weight of the perfume of volatile, hydrophobic perfume material;
- (iii) optionally, less than about 10% by weight of the perfume of residual, hydrophilic perfume material;
- (iv) less than about 10% by weight of the perfume of residual, hydrophobic perfume material;
- (k) optionally, a detergent adjuvant.

74. (New) The composition of Claim 73, wherein said composition comprises from about 0.005% to about 0.2% by weight of said composition of perfume, wherein said perfume comprising:

- (a) optionally, from about 0.05% to about 90% by weight of the perfume of volatile, hydrophilic perfume material;
- (b) optionally, at least about 0.2% by weight of the perfume of volatile, hydrophobic perfume material;
- (c) optionally, less than about 10% by weight of the perfume of residual, hydrophilic perfume material;
- (d) less than about 10% by weight of the perfume of residual, hydrophobic perfume material.

75. (New) The composition of Claim 74, wherein said composition comprises from about 0.001% to about 0.5% by weight of the composition of surfactant, wherein a ratio of said surfactant to said perfume is from about 20:1 to about 1:50.

76. (New) The composition of Claim 75, wherein said ratio of said surfactant to said perfume is from about 1:1 to about 1:4.

77. (New) The composition of Claim 73, wherein said composition comprises from about 0.25% to about 7% by weight of said composition of organic solvent, wherein said organic solvent has a boiling point of from about 120°C to about 180°C.

78. (New) The composition of Claim 77, wherein said organic solvent is a glycol ether.

79. (New) The composition of Claim 73, wherein said composition comprises no greater than about 0.5% of slowly volatile material having a boiling point of greater than about 160°C.

80. (New) The composition of Claim 79, wherein said slowly volatile material is selected from the group consisting of non-volatile surfactant, amine buffer, organic solvent, and mixtures thereof.

81. (New) The composition of Claim 80, wherein said composition comprises no greater than about 0.425% of slowly volatile material having a boiling point of greater than about 160°C.

82. (New) A method of cleaning a hard surface comprising the steps of:

- (a) contacting the surface with a cleaning implement comprising a handle and a removable, dry, cleaning substrate to remove dust and fine particulate matter from the surface;
- (b) contacting the surface with a hard surface cleaning composition to wet the surface;
- (c) contacting the wet surface with a cleaning implement comprising a handle and a removable cleaning pad to substantially remove the hard surface cleaning composition from the surface; and
- (d) allowing the surface to dry without rinsing the surface with a separate rinse solution.

83. (New) The method of Claim 82, wherein said removable, dry, cleaning substrate is a nonwoven hydroentangled cleaning sheet.

84. (New) A method of cleaning hard surfaces comprising the steps of:

- (a) contacting the surface with a cleaning implement comprising a handle and a removable, dry, cleaning substrate to remove dust and fine particulate matter from the surface;
- (b) contacting the surface with a cleaning implement comprising a handle and a removable, pre-moistened cleaning wipe to remove additional soil from the surface; and
- (c) allowing the surface to dry without rinsing the surface with a separate rinse solution.

85. (New) The method of Claim 84, wherein said removable, dry, cleaning substrate is a nonwoven hydroentangled cleaning sheet.

86. (New) A cleaning implement, comprising:

a handle;

a support head pivotally attached to said handle;

a cleaning substrate removeably attached to the support head, wherein said cleaning substrate has an absorbent capacity of at least about 5 g/g; and

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( a liquid delivery system for providing a cleaning liquid to a surface to be cleaned, wherein said liquid delivery system is configured to spray at least about 2 mils/sec of a cleaning liquid.

87. (New) The cleaning implement of claim 86, wherein said liquid delivery system is configured to spray the cleaning liquid onto a surface with a spray efficiency of at least about 0.000006 mils/(sec x cm<sup>2</sup> x g/g).
88. (New) The cleaning implement of claim 86, wherein said cleaning substrate has a squeeze-out value of no more than about 40%.
89. (New) The cleaning implement of claim 88, wherein said liquid delivery system is configured to spray the cleaning fluid on to a surface with a cleaning efficiency of at least about 0.0006 mils/(sec x cm<sup>2</sup> x unit squeeze-out).
90. (New) The cleaning implement of claim 86, wherein the liquid delivery system is configured to spray the liquid onto a surface with a spray efficiency of at least about 0.0002 mils/(sec x cm<sup>2</sup>).
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91. (New) The cleaning implement of claim 86, wherein the liquid delivery system comprises a spray nozzle, a pump in fluid communication with said spray nozzle, an electric motor driving said pump, a voltage source powering said motor, and a liquid filled canister in fluid communication with said pump.
92. (New) The cleaning implement of claim 91, wherein the spray nozzle is configured to provide a spray angle of at least about 30 degrees.
93. (New) The cleaning implement of claim 92, wherein the said spray nozzle is configured to provide an average particle size of at least about 100 μm.
94. (New) The cleaning implement of claim 91, wherein said spray nozzle is configured to provide an exit velocity of at least about 0.009 cm/sec.



95. (New) The cleaning implement of claim 91, wherein said voltage source is a plurality of batteries and wherein said batteries are configured to provide a voltage of at least about 1.5 volts.
96. (New) The cleaning implement of claim 95, wherein said voltage is supplied for at least about 5 minutes of continuous pump operation.
97. (New) The cleaning implement of claim 91, wherein said pump is configured to spray the cleaning liquid at a spray nozzle inlet pressure of 6 Kpa.
98. (New) The cleaning implement of claim 91, wherein said pump has an efficiency of at least about 3%.
99. (New) The cleaning implement of claim 91, wherein said motor has an efficiency of at least about 50%.
100. (New) The cleaning implement of claim 86, wherein said liquid delivery system is configured to provide a spray pattern having a spray depth of at least about 20 cm.
101. (New) The cleaning implement of claim 100, wherein said liquid delivery system is configured to provide a spray pattern having a spray width of at least about 20cm.
102. (New) The cleaning implement of claim 86, wherein said handle has a deflection of less than about 15 mm.
103. (New) A cleaning implement, comprising:
- a handle;
  - a support head pivotally attached to said handle;
  - a cleaning substrate removeably attached to the support head; and
  - a hand-held liquid sprayer removeably attached to the cleaning implement for dispensing a liquid onto a surface to be cleaned.

104. (New) The cleaning implement of claim 103, wherein said hand-held liquid sprayer is stored within a cage attached to said handle.

105. (New) The cleaning implement of claim 103, wherein said hand-held liquid sprayer further comprises a cleaning liquid.

106. (New) An article of manufacture, comprising:

a package;

a hand-held liquid sprayer stored within said package;

a set of instructions in association with said package comprising an instruction to use said hand-held liquid sprayer with a mop having a mop head and a cleaning substrate removeably attached to the support head.

107. (New) An article of manufacture, comprising:

a package;

a mop having a handle, a mop head pivotally attached to said handle, said mop head configured to removeably receive a cleaning substrate; and

a set of instructions in association with said package comprising an instruction to use a hand-held liquid sprayer with said mop for cleaning.

108. (New) A kit, comprising:

a cleaning substrate;

a container for use with a hand-held liquid sprayer and storing a cleaning liquid; and

a structure for releaseably receiving said container, said structure configured to attach to a cleaning implement.

109. (New) The kit of claim 108, wherein said structure is a cage.

110. (New) An article of manufacture, comprising:

206 a mop having a handle, a mop head pivotally attached to said handle, said mop head configured to removeably receive a cleaning substrate, and a spray nozzle attached to said mop;

a package storing said mop; and

a set of instructions in association with said package comprising an instruction to move said mop in a predetermined pattern

111. (New) The article of manufacture of claim 110, wherein said set of instructions further comprises an instruction to move said mop in said predetermined pattern above the surface to be cleaned.

112. (New) The article of manufacture of claim 110, wherein said set of instructions further comprises an instruction to move said mop in said predetermined pattern on the surface to be cleaned.

113. (New) The cleaning implement of claim 86, further comprising a scrubbing strip.

114. (New) The cleaning implement of claim 113, wherein said scrubbing strip is attached to said mop head.